Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Original) A fluorescent protein described in the following (a) or (b):
 (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or
 (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer.
- 2. (Original) A fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, respectively.

- 3. (Original) A fluorescent protein described in the following (a) or (b):

 (a) a protein having the amino acid sequence shown in SEQ ID NO: 11, 13,
- 15, 17, 19, 21, 23, 25, 27 or 29; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, respectively.
- 4. (Original) DNA encoding a fluorescent protein described in the following(a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer.

- 5. (Original) DNA encoding a fluorescent protein described in the following(a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, respectively.
- 6. (Original) DNA encoding a fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, respectively.

- 7. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 2; or

 (b) DNA, which has a nucleotide sequence comprising a deletion,
 substitution, and/or addition of one or several nucleotides with respect to
 the nucleotide sequence shown in SEQ ID NO: 2, and which has a
 nucleotide sequence encoding a protein that has fluorescence properties
 equivalent to those of the protein encoded by the nucleotide sequence

shown in SEQ ID NO: 2 and that exists in the form of a monomer.

- 8. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10, and which has a nucleotide sequence encoding a protein that has fluorescence properties equivalent to those of the protein encoded by the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10, respectively.
- 9. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30; or

- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30, and which has a nucleotide sequence encoding a protein that has fluorescence properties equivalent to those of the protein encoded by the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30, respectively.
- 10. (Currently amended) A recombinant vector having the DNA according to any one of claims claim 4 to 9.
- 11. (Currently amended) A transformant having the DNA according to any one of claims claim 4 to 9 or the recombinant vector according to claim 10.
- 12. (Currently amended) A fusion fluorescent protein, which consists of the fluorescent protein according to any one of claims claim 1 to 3 and another protein.
- 13. (Original) The fusion protein according to claim 12, wherein another protein is a protein that localizes in a cell.

- 14. (Currently amended) The fusion protein according to claim 12 or 13, wherein another protein is a protein specific to a cell organella.
- 15. (Original) The fusion protein according to claim 12, wherein another protein is a fluorescent protein.
- 16. (Original) The fusion protein according to claim 15, which generates intramolecular FRET.
- 17. (Currently amended) A method for analyzing the localization or dynamics of a protein in a cell, which is characterized in that the fusion protein according to any one of claims claim 12 to 14 is allowed to express in the cell.
- 18. (Currently amended) A fluorescent reagent kit, which comprises: the fluorescent protein of any one of claims claim 1 to 3; the DNA of any one of claims 4 to 9 encoding a fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or

 (b) a protein, which has an amino acid sequence comprising a deletion,
 substitution, and/or addition of one or several amino acids with respect to
 the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence

properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer;

the <u>a</u> recombinant vector of claim 10 having DNA encoding a fluorescent protein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or

(b) a protein, which has an amino acid sequence comprising a deletion,
substitution, and/or addition of one or several amino acids with respect to
the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence
properties equivalent to those of the protein having the amino acid
sequence shown in SEQ ID NO: 1, and which exists in the form of a
monomer.;

the a transformant of claim 11 having the DNA encoding a fluorescent protein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or

(b) a protein, which has an amino acid sequence comprising a deletion,
substitution, and/or addition of one or several amino acids with respect to
the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence
properties equivalent to those of the protein having the amino acid
sequence shown in SEQ ID NO: 1, and which exists in the form of a
monomer;

or the a fusion protein of any of claims 12 to 16, which consists of the fluorescent protein according to claim 1 and another protein.

absorbing properties.

- 19. (Original) A chromoprotein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-
- 20. (Original) A fluorescent protein described in the following (a) or (b):

 (a) a protein having the amino acid sequence shown in SEQ ID NO: 39; or

 (b) a protein, which has an amino acid sequence comprising a deletion,
 substitution, and/or addition of one or several amino acids with respect to
 the amino acid sequence shown in SEQ ID NO: 39, and which has
 fluorescence properties.
- 21. (Original) A fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47, which has fluorescence properties, and which has a stokes shift of 100 nm or greater.

- 22. (Original) DNA encoding a chromoprotein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties.
- 23. (Original) DNA encoding a fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 39; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 39, and which has fluorescence properties.
- 24. (Original) DNA encoding a fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to

the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47, which has fluorescence properties, and which has a stokes shift of 100 nm or greater.

- 25. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 38; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 38, and which has a nucleotide sequence encoding a protein that has light-absorbing properties.
- 26. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 40; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 40, and which has a nucleotide sequence encoding a protein that has fluorescence properties.
- 27. (Original) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 42, 44, 46 or 48; or

- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 42, 44, 46 or 48, and which has a nucleotide sequence encoding a protein that has fluorescence properties and has a stokes shift of 100 nm or greater.
- 28. (Currently amended) A recombinant vector having the DNA according to any one of claims claim 22 to 27.
- 29. (Currently amended) A transformant having the DNA according to any one of claims claim 22 to 27 or the recombinant vector according to claim 28.
- 30. (Currently amended) A fusion protein, which consists of the protein according to any one of claims claim 19 to 21 and another protein.
- 31. (Original) The fusion protein according to claim 30, wherein another protein is a protein that localizes in a cell.
- 32. (Currently amended) The fusion protein according to claim 30 or 31, wherein another protein is a protein specific to a cell organella.

- 33. (Original) The fusion protein according to claim 30, wherein another protein is a fluorescent protein.
- 34. (Original) The fusion protein according to claim 33, which generates intramolecular FRET.
- 35. (Currently amended) A method for analyzing the localization or dynamics of a protein in a cell, which is characterized in that the fusion protein according to any one of claims claim 30 to 32 is allowed to express in the cell.
- 36. (Currently amended) A reagent kit, which comprises:
 the fluorescent protein of any one of claims claim 19 to 21;
 the DNA of any one of claims 22 to 27 encoding a chromoprotein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties;

the <u>a</u> recombinant vector of claim 28 having DNA encoding a chromoprotein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties;

the <u>a</u> transformant of claim 29 having DNA encoding a chromoprotein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties; or

the <u>a</u> fusion protein of any of claims 30 to 34 which consists of the protein according to claim 19 and another protein.